**AMENDMENTS TO THE CLAIMS** 

1-6. (Canceled)

7. (New) A vaccine formulation for preventing and/or treating infection by a

pathogenic member of the family Enterobacteriaceae in a mammalian subject comprising a

peptide encoded by a nucleic acid molecule that hybridizes under stringent conditions to a

nucleic acid molecule selected from the group of the nucleotide sequence of SEQ ID NO: 4 and

the nucleotide sequence complementary to SEQ ID NO:4, and a pharmaceutically acceptable

carrier.

8. (New) The vaccine formulation of Claim 7 wherein the pharmaceutically

acceptable carrier is suitable for administration by a route selected from the group consisting of

an oral route, an intranasal route and a parenteral route.

9. (New) The vaccine formulation of Claim 7 wherein the pharmaceutically

acceptable carrier is selected from the group consisting of sesame oil, peanut oil, sterile aqueous

solution, and isotonic solutions suitable for injection.

10. (New) The vaccine formulation of Claim 7 wherein said pharmaceutically

acceptable carrier comprises liposomes.

11. (New) The vaccine formulation of Claim 8 wherein said vaccine formulation is

packaged in enteric coated capsules.

12. (New) The vaccine formulation of Claim 7 which further comprises a stabilizer.

13. (New) The vaccine formulation of Claim 12 wherein the stabilizer is selected

from the group consisting of sorbitol and gelatin.

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14. (New) The vaccine formulation of Claim 7 which further comprises an

immunoadjuvant.

15. (New) The vaccine formulation of Claim 14 wherein the immunoadjuvant is

selected from the group consisting of: the water-in-oil emulsion of Freund, light mineral oil,

Arlacel A, Arlacel C, liposome-antigen combinations, cholera toxin B subunit conjugates and

monophosphoryl lipid A.

16. (New) The vaccine formulation of Claim 7 which comprises a peptide that is

encoded by a nucleic acid molecule that hybridizes under stringent conditions to the nucleotide

sequence of SEQ ID NO:4 or its complement.

17. (New) The vaccine formulation of Claim 16 wherein said peptide is derived from

a recombinant organism.

18. (New) The vaccine formulation of Claim 16 wherein said peptide is produced in a

transgenic plant.

19. (New) The vaccine formulation of Claim 16 which comprises an amount of the

peptide effective to promote the clearance of the pathogenic enterobacteriaceae from the

gastrointestinal tract of a mammalian subject infected by a pathogenic member of the family

Enterobacteriaceae when administered thereto.

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